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Amendments to the Specification:

Please replace the paragraph beginning on page 3, line 23 and extending through page 4, line 4, with the following amended paragraph:

The present invention makes use of highly non-linear processing in the initial part, the so-called preamble, of the data packet. In this way also very large offsets can be compensated for and there is no need for a DC-free preamble. By exploiting the fact that the maximum deviation from the actual DC level is known (since modulation of the system is known), the DC-estimate is set. Once the preamble has been identified by the baseband processing, a control signal is sent to the circuit for DC-compensation which turns off the non-linear processing. During the rest of the packet, the DC-level is estimated by means [[pf]] of low-pass filtering of the signal. Since the data is assumed to be whitened, and therefore can be expected to have almost zero mean, this will result in a smooth DC-estimate which is able to track DC-variations in the packet which are due to, for instance, frequency drift.